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<110>   Tony, Romeo
        Xin, Wang
        Rebecca L., Desplas

<120>   Novel Genes Involved in the E. coli Biofilm Formation and Uses
        Thereof

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<150>   US 60/464062
<151>   2003-04-17

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<170>   PatentIn version 3.2

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caaaatcatt aggggattca tcagggcgca gcccgctgcg tgagtttatg ctgcgtcaga   120

cccgtgaggc agatttaggg ttgtttgcca gactggcgaa taccggcccg ttgcagggac   180

ctgaagccgt gccgatgcgc attttgctcc cggcctacgt gaccagcgag ttgaaaaccg   240

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agcttttttt ccaantacca tgcttgccnn atgaccataa ngttgcgata tnttcattcc    180

gtgcatgcaa acancgtacc nncagcgcca ccatncaact gatgcgtcng antaatgacc    240

aggttntant tattctntcg cccgagcctc atcancnaan gctcnctttn tnnncggnan    300

nnnnattttn cccngtctnn ntnttgnttn antnnnttac gcggcnacnn attngttntg    360

gtcntacgng cnnnataacn gcnnctcncn nncc                               394


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ccgaatatat agtggagacg tttagatggg taaaataatt ggtatcgacc tgggtactac   180

caactcttgt gtagcgatta tggatggcac cactcctcgc gtgctggaga acgccgaagg   240

cgatcgcacc acgccttcta tcattgccta tacccaggat ggtgaaactc tagttggtca   300

gccggctaaa cgtcaggcag tgacgaaccc gcaaaacact ctgtttgcga ttaaacgcct   360

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gttcggtatg ggtaaactcg cgaccttcca ctttggtcgg gaagcgtcca tcgccgccaa   180

acaggttatc cacggcgata aacaccagac tcggtgagaa caccaccagc ccagtgccgc   240

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ggaagttgag tacgtgcgtt cggaaatgca ggtgaaattt accaatatca ccacctcgcc    180

gaacgacatt gtggttaaca cgccgttcca tgtggagatt ggcaacctga ccggcgaatt    240

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atcattaggg gattcatcag cgcttgaagg ctatagcgac gcctggaagg cgattaatcc    120

gctggaagtt gagtacgtgc gttcggaaat gcaggtgaaa tttaccaata tcaccacctc    180

gccgaacgac attgtggtta acacgccgtt ccatgtggag attggcaacc tgaccggcga    240

atttaatatc                                                           250
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gcggcaatca ccactgagcg tgcacgccct tcggcaccga ggatgttctc aataaaatct    180

tttacttcgc gcccacgttc accaatcaaa cccacgacaa tgatatccnn nnnnnnngta    240
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gatttttacc aaaatcatta ggggattcat cagcgctcca gcccctggag agacgcttnc   120

cagtccgcgc gttcaaaaat gccttgttgc aaatagccct ccagctgcgg ccacagggcg   180

atggctttat cgagcatcgg atcgctgcct ttggcatacg cgccgacgct aaccagatcg   240

cggttacgct gaaaactcga caacagctgt ttgaaggtgc gcactcgcgc gtaatgttgc   300

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atgattttta ccaaaatcat taggggattc atcagagtcg ctagtggaaa agccatttcg     120

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nanannnnnn ncggcannnc cncccnt                                          207


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ttcgggtata tacacagtcg tgggaaggcg attgcccgaa agcatttgag cttattcang   180

ngccagttaa gtcccntacc aaccatggac gcaatgcaga atattatgcc tgggtacaaa   240

atcatntnaa acagcntccc ncaggatctg tgtcgnngng ttcaattatt atnccctcgn   300

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cgattaatcc gctggaagtt gagtacgtgc gttcggaaat gcaggtgaaa tttaccaata   180

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tgaccggcga atttaatatc tgcctgccat tcagca   276

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gatgagcatg caggtgtagg ttttgtaacc tgttgttaat tacatccgat ctcaccgcgt     180

ggggcatgga tggggcaaac tcactcaatt tctggtttaa aatggatacc tgatcctgaa     240

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gtttcgatgg cttccatcac ccgctggcgc agattactgt ccagtagttg ttgtagcggg     180

ttttctcgct gatgatcatc agtaaccagt tcgatgctat cgccgtgctc ttcgcgccac     240

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atatcnnccc cccccgtact agtcgacgcg tggccaa                              337


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atcgccacct tcaggtttga tatccagtaa cataccatcg ggtgccagtt ttatgcgcag   180

cgtacaggtt ttgcctgcat aggacgatgc gtcatagaac ttactttcga tagcagattt   240

aatctgcccg gcatagttat tgatatccnc cccccnngta ctagtcgacg cgtggccann   300

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gccaatancg ccggccntag cnctagncgn cgcacgnnca gacgcgtggc ca   172

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gaatccactt cctgcaacag acgctgaatg ctgcgatcgt cgacatccac cagattctcg   180

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atattgcggg aaaacaatat ccagcgccgc cnttnnngcg tcacgcgtna ctttcgccag   180

gatagacgcg gcactgattt ccggtacgcg gctatcgcct ttcaccacag ccatcgcagg   240

catcggtaat ttcgggcagc ggttaccatc aatcaacaca tattccggcg caatatgcag   300

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aaaccatatt gcgggaaaac aatatccncc ncccnngtac tagtcgacgc gtggccaaat     180

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catttcgaaa aatcctggtc ataaagatgc gatatccngn nnccnngtac tagtcgacgc      180

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cccgcaatta tccattttg ttattggatt tccattaact ctgactgtcg gcatctcttt     180

aatggcggca ttaatgccgt taattgcacc tttttgcgaa catttattca gtgaaatttt     240

taatttgctg gctgatatta ttagtgaatt gccattaata taattccgta acgtttatca     300

tgttatccta aggattatcc gaaaaataat acctacgaac atcttccagg atactcctgc     360

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atttttacca aaatcattag gggattcatc agcgctgcgc atacttatgc catatccnnc       120
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ccggctaaag attgagcttg ctttgcgaca tcatcaatac tgaaagccca gcttgaagat       180

gtatacaggg ttaacattac tgcagcactc aaccaacgca ttttcattat ttgtagctta       240

tgtttcataa ttagtaaggc acttccccct ttngtgtgct tatatccctn ngntnncntn       300

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gaatggctgg tacgcatcta cataaatttt gtcgatcacc ggtgacataa taaaaaaggt      180

caaaaacagt gccagcccca gcaatacctg gttaggtggc gcggagggtg ttcccagcgc      240

gttacgcaat aaaccaaaaa caatgatgat gcgggtgaaa ctggtcatca tcagtaaaat      300

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ttagtcaaga ttatgatatc tttttaacgg ataatccgtc taatcttact gcctctggct     180

tgctttttaag cgatgatgag tctggcgtac gggaaattgg gcctggtcaa ttgtgcgtca    240

acttcaatat gagcaacgct atgcaggaag cggtcttaca attaattgaa gtgcaactgg     300

cgcaggaaga ggtgacagaa tcgcctctgg gcggagatga aaatgcgcaa ctccatgcca     360

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accgngtaag gngcattcat ntgcatatgt tgctgcnanc aatctggctg agnagacaag     180

cncactccca tganacgcat cgcgcattat tntacgtgaa ancggatnna anggntggnt     240

aaaccnanga nccnncgccg antatnnttc cnctgncann ctnanntngn ctngnacnga     300

nnncnanncn acncctcttt ntnnnnttcc gntnnngnng nnnnnnntng tnntccnncc     360

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tcctggtcat aaagatgcga tatccnnnnn nn                                    212


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ttgatatttt ntcttcgntg natggctggt acgcatctac ataantnttg acgatcaccg     180

gtgacntaat aaaanaggnc nnanncantg ccantcccag caatncntgg ttnngtggng     240

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aatatgtcct tacaaataga aatgggtctt tacacttatc taagattttt cctatatcnn     180

cncnccnngt actagtcgac gcgtggccat ttatnnnnna tntcctnntn gtctcnngnn     240

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gcgtgagtat gatgcgttta ttaccaacca gttacgtgcg gcgcagacgc aaagtagcgg     180

tctgactgcc cgctatgagc agatgtcgaa aatcgacaat atgctctcca ccagtacctc     240

ttcgctggca acacagatgc aggatttctt caccagcctg caaacgctgg tgagtaacgc     300

ggaagacccg gcagcgcgcc aggcgctgat tgggaaatca gaaggattgg tgaatcagtt     360

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cccgcttaac gatgagttag ccgcgctgat atcaatggtn atcgtactan tcgacgcgtg     180

gccatgaatg gtgagtttac tgtcgctggt ggcgatcgcc gttttcatat cgncnnttnc     240

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aaagtcatgc aacgtggacg ggatgcaacc agtgtggttg cactgacgat gacctcaacg   180

caacacattc cggcgcaggc gctgacgcct cctaccgcag aactgcaata ccgtattccg   240

gaccagcctt cgcttgacgg taataccgtc gatatggatc gcgaacgcac ccagtttgcc   300

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cctgatgcga atgccagtag ctgtaacctg cgctggcaca ggccgcgagg gtaatgaata   180

ccagaatcgg gatccaaagc gatcgcttgc ttttcttgct tatcgcgtaa tcagtcatgt   240

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agcgccacca tccactgatc cgtaagatta atgaccaggt cataattatt cgcacgcaga   240

gnttttatca acnaaagcac attttttaatt tnatcgaaag ttcccncncc tttattgctt   300

ancccataga gcgcantnnt ttccgggttt ncanacaaaa tntggatggt gncctgncna   360

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gaatcggcgc ggtggagatc atcgccagct cncgcantna cggncagaan tacaggttta     180
accaggatag ccattgttng cttgccacct gcancatagt acggttaccc natgatttac     240
tngnaggtta gtgaacaang tgcggncagt nattcancaa cacattnngc atgntctgtc     300
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attttctctt cgctgaatgg ctggtacgca tctacataaa ttttgtcgat caccggtgac     180
ataataaaaa aggtcaaaaa cagtgccagc cccagcaata cctggttagg tggcgcggag     240
ggtgttccca gcgcgttacg caataaacca aaaacaatga tgatgcgggt gaaactggtc     300
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gggagcgacc agctttgtcc accgccaggc agcggctggc tggtgatacc cggcagttgc   420

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ccgaacccaa accggtaaaa atggcagaga ataataccgt tgtcgaagcg acgtggaacg        240

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ctgttcactg ccggattgct cgggctggcc tggtggatac gcggacgcga acaaaaagcg        180

cctgccgaac ccaaaccggt aaaaatggca gagaataata ccgttgtcga agcgacgtgg        240

aacgatgtac aactggaaga ttctctggga atggaagtgg gttatcgact gatcccgatg        300

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tcgacgcgtg gccaannnnn nnncnncnnc tagcnntaaa anngncatna nccncncnca     240

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cagtcaaccc gcctgatatc cngnncnnnn gtactagtcg acgcgtggcc atanantnag      240

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cgtttaccgc taaacttagc gcctacggta cgctgaaaag cgcgctgacg actttccaga     240

ccgccaatac tgcattgtct aaagccgatc ttttttccgc caccagcacc accagcagca     300

ccaccgcgtt cagtgccacc actgcgggta acgccatcgc cgggaaatac accatcagcg     360

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gatagcctca ccgccgcgca aaaagcgacg ctaaccncca tttcanatca gcaatcgtcg     180

tttaccgcta aacttagcgc ctacggtacg ctgaaaagcg cgctgacgac tttccagacc     240

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tggcagcaaa catcgccaat gccgataccc ctggttatca ggcgcgcgat atcgattttg   180

ccagtgaact taaaaaagtc atgcaacgtg gacgggatgc aaccagtgtg gttgcactga   240

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tcgcagcact gtaacgcgta aaatagtgct ttctcttact cttctggctg gaccatgaga     180

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caagttgatt attacgtaat gcctgcacgt aattctgtgg gatatccnnc ccnnncgtac     180

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at                                                                      242


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cgnatggncg atttcaactt attaacncgt ttcgatgccn tgntgnagga gccnancatt   240

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ctgtaacgcg ctaaataacg cttgtntctt actcttctgg ctggaccatg agacttctga     180

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gttccattag ctacctctct ctgattcaaa acagggcaat aatgttgttc ctttcacact   180

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cgggcattat cttttttaatt ctctttccca tcattctttc gctatggatt gccttccttt    240

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ctttgagata agccgatgca acccaatatt gcccccaggg cggaataatt tgccccgtct     300

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caccggggat gcaagcgaaa caggggagtc attgcttaga tgatgacagg taatggcgcg     180

gatatcgaat gttatgcaan caganaanan cagnctgttc aaatggctgt gcgattctgg     240

atagcccgaa atagtcaact tcaggctatc cagagagcgg aattattccg ccaaagtgcg     300

tttttgctgt tcgagatcgc gttcaatgcc gtcacgaaca tcctggggga ttttcagcgc     360

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tccaccggcg ttgaggcgtc tattcaggtc aaaccgtctt acggtctgac cgatagcgaa     180

atcgcttcga tgatcaaaga ctcaatgagc tatgccgagc aggacgtaaa agcccgaatg     240

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gctgatgccg cgctgttaag cgccgcagaa cgtcaggtca ttgacgatgc tgccgctcac     360

ctgagtgaag tggcgcangg cgatgatgtt gacgccatcg aacaagcgat taaaaacgta     420

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ccagaggtac aaacagatca tccagagacg gcggagttaa gcaaaccaca gctacgcatg     180

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aacggccaga agaaaacgaa cctnatcatc agttcaccga gtgaaagtac gctacgcata   240

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tgccggggcg ctcggcgatc agccagtcca catccacctc ggccagctcc tcgcgctgtg   240

gcgccccttg gtagccggca tcggctgaga caaattgctc ctctccatgc agcagattac   300

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tgccgcgatt gacgatgcca atttaacgcc agatattcgc gctgatattn ctanncgacg     240

ngcnggnnga cgcgtggcca angcnnnncn tnnnctnnna annntgnncn gnncnctggc     300

tgntgtccnn nctgnnancg ccncanaacn tcntgncntn nnnnangctg ncgtccctta     360

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ggccacnnnt tcattcnccn ctanctcnna agtnnnccna ctccgngnnc naccnnccnn     240

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cngctgctcc tncnnccttc cncgcnccnt accntcgtnn ccttantcca cctgcnncta     300

tcccncggcc cgncctcccg nccccccnct ncaantngtt cangnacngn ccnccctcgc     360

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gannagccgg nccatccctn tatatcnncc nnccctgtac ctngncggnc ncgtggncnn     240

nctcctntcn ttnncntctc cccnntctnn nncccctctn ncgcggnccc nctganncgc     300

ctcncttctt ntacctccnc gngcctctac cnctcgnncc tcnccccccca cctccttatt    360

ccncctccnt cntntccntc tccacctntc ctttccnacc gcnncatnnn acgtctcntt     420

ccctnnnncc acnnntnatc cttcngcncc cctcngngcg aancntcnct nnnctancgg     480

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cgtccggggc ggcgggaatg ctggtgacat ccgcagaagc atttgccgat tatcagaaaa     240

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cgcagctcac cgcgcacttt gacgcagtgc gtcgcgagat tatgacgctg ccgcgtgaag     360

gtaaaactct gcaaacggaa gtgcgggaaa tgcgcgagaa aatgcgcgct catctcggca     420

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cgctgtatgt gccaaaacag ccgagcaccc tgaaacgcct gttgcatctg ggcagttttg   180

ccgtcagcag tttctttccg ctgatggcgc aacgtcgctg gaagccggat cgcattattg   240

gcgtggtgcc aacgctgttt tgcgcgccgg gaatgcgcct gctggcgaaa ctctctggtg   300

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tacccagtct gtattacgaa caaaatacag aacacgatac cccatactac aaccctataa   180

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atagctggga gcaaatattc agcgcaggtg ttggtgcctc ctggcnaaaa cattatggca   300

cggatgtcgt cacccaactc ggctacgggc aacgcattag ttggaatgac gtgattgatg   360

ctggcgcaac gctacgctgg gaaaaacgac cttatgacgg tgacagagaa cacaacttat   420

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ataagcctga gcactgttgc ctgtaacacc attttttcatt gcccgtaatg gaacgcggtg     180

agagaggcgt tccagttgcg aaccaatacg ccagttatca ttaaaatcat atcngccngn     240

ccngtactag tcgacgcgtg gccanaaatt gaaaactggt ttgccanaat tntctngatc     300

ncctaaaaag ctatnactgg acncgntatn atggntntgn nttatctggn anggggnnnc     360

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caagngagac ttcatgacgc tggttactgt cggaaaaatc agtgaaagcc cagganacac     180

cgtacttacg ccgctcattt tgataccagc gaacataagc ctgagcactg ttgcctgtaa     240

caccattttt cattgcccgt aatggaacgc ggtgagagag gcgttccagt tgcgaaccaa     300

tacgccagnt atcattaaaa tcatatcnnc cngaagagga ctagtcnacg cgtggccann     360

acanccncac tnntnaacnt gnggctacna ntntaccngc ccannagnnt tacntnantt     420

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cggcgctgac catttatgac atgtgcaaag cggtgcaaaa agatatcncn nnccnnngta   180

ctagtcgacg cgtggccaaa natcngggnt ctcnnnntgc tngctncnaa tcnantgnac   240

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aaacccggag caatttaaac agtgggcccg ctttaaaagt cgtgcgttaa ctgacttcac     180

tttagaactt agtgcgcgcg taaaagccat tcgcggtcca catattaaaa ctgcacgaaa     240

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gtaatcctcg tattcgaaca cgttctaccc tggtgggtaa aattcaggtt ggcgagtatt     240

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gcggcggcat atattgtgga accgatgttg tacaacccgc gtgtgggtgc cgtaaccggt     180

aatcctcgta ttcgaacacg ttctaccctg gtgggtaaaa ttcaggttgg cgagtattcc     240

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cgtgggtgga ttcgaagcag cgaagatgaa tgggctcgcc ttctaccact gcggcgttaa     180

gtacgctact gaccaggcgt ttggaaagtg catcagccac gccaacgtca aacaataaat     240

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naggtacaaa cagatcatnc agagacggng gagttaagca aaccacagct acagcatggt     180

cgatctcaac ttattaaccg ttttcgatgc cgtgatgcag gancaaaaca ttactcgtgc     240

cgctcatgtt ctgggaatat cncnnnngcn ngnactagtt cgacgcgtgg ccncatanna     300

tgtntcnnnt tcnnnnctct tcnnttgctt cccttncccc tcttccngcc ccccannncg     360

tctnntntnn atcnngnnct tnncntacga ctn                                  393
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ttaccaaant cattagggga ttcatcanag ttaagtgtga cagtggagtt aagtatgcca     120

gaggtacaaa cagatcatcc agagacggtg gagttaagca aaccacagct acngcatggt     180

cgatctcaac ttnttaaccg ttntcgatgc cgtgatgcag gagcaaaaca ttactncgtg     240

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gcttacttta accaccgcag cacaattagc taattttacg gatgcagaac tcacgctggc   180

gggacgtttt tattgcgtca gggttgacat ccgtttttgt atccagtaac tctaaaagca   240

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cttaacttaa tgatttttac caaaatcatt aggggattca tcagnacngc nnattgnncc     120

cacggnggan taantngccc cngnttgnnn tctcgctgnt aanganaaat aacgtcttta     180

taacgancgc gagtnaataa cgcgccaaga tgatcaacct gaatacnctg gtactgggca     240

gtgcggtctg ggttatcgtg ccacagaatt tctaatgcag cgtattgggc gagggcgcga     300

tcggcaatgg cataacgntc actttcactg cgcgtaggca taaacgacag tctgaccagt     360

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aaaatcatta ggggattcat cagagcttaa taccggcatc cacgcataga tgtttacacc   120

tgagcgggta cgtaattgcc aggcaacccg actaaaaata tctgctttca ttggnctnan   180

acaancgngg anccagacct ctttgaccag cccatcacca tcgggatcag caaatgcctg   240

caaatacacg gttgatattt gcatatcttt cccccncgta ctagtcgacg cgtggccaca   300

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taacttaatg attttttacca aaaatcatta ggggattcat cagtggatta tgcggttgat     120

aaaaaagcga tcgatacagc tacgcgtcag acactgctcg gcaatagcct ggtcgttgta      180

gcaccgaaag ccagcgtgca gaaagatttc accatcgaca gcaaaaccaa ctggacttca      240

ctgctgaatg gcggtcgcct ggcggttggc gatccggaac atgttcccgc tggcatttat     300

gcaaaagaag cactgcnaaa actgggcgca tgggatacnc tcnctccgaa aatggncccn      360

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tggtngttgg angccgggta acagccntca ttatgggngt tggcctcaac acgattttcc     180

tccntttaaa aaactcacgc cgntaccctg taacctcgca ccatactggc agggcagcng     240

acngattcgc ctgcgcatga aatgnanaaa cnntgggat ncaccagggn gtaaatctng      300

ccagcgatnn ctgnnttnnt cttntganan gatncngaaa anggggntg cncncgtntn      360

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atctcaacta ttaaccgttt tcgatgccgt gatgcaggag caaaacatta ctcgtgccgc   240

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cncnnntntc gnnctagncg nngcntggcc angnttncgn ccnncntnac ncnctccatn     180

antntnnccn ctntcncnna ntacngtgcc cgngnatncc cntcctccgt cggcccccnc     240

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gcccggactt ctgcttcaaa acctgaagcc aacatctgat gaaaacgctg ctcaatgcgt     180

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gcgtctcctg acgtttgcgt cagttccgtt aaagtttttac ccgaaatgaa aaaaacttcc     300

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aaat                                                                484


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taataaaact atcancgccc aaaaaaacag tgcgatgcgt cgactggcaa ttcacagcaa   180

cgctgaaatg tatgcatgga taaatagcgc gcagggtgca agagaactta acttgccttc   240

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gaataatttg ccccgtcttt tttaatcgct gatagtgaga aataacgtct ttataacgat   180

cgcgagttat aacgcgccaa gatgatcaac ctgaatacgc tggtactggg cagtgcggtc   240

tgggttatcg tgccacagaa tttctaatgc agcgtattgg gcgagggcgc gatcggcaat   300

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ctattgtaat accaataatt tgctaaggcc tctgactttc tggccgcaat caatacgacc   180

tgtttcccct ttaccgcgga taaccattca ttatcacggt ttataaattc agataaagaa   240

tccgtactga gattgataaa cacgaaatct tttctaattt tctccaacga tagataaatt   300

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cagtggcgaa tgccgtcgtg ttaattgtct gggcgctgta caataagctg cgttttcaaa   180

aacagcagca tcatgcagcc taccaatata cgccgcaaga atatgcagag agcttagcaa   240

tacctgatga gctctatcag caactacaaa aaagccacag gatgagcgta cacttcacca   300

gccaggggca aataaaaatg gttgtttcag aaaaagcgct agtccgggca taaacaccca   360

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nccacgagcc cactgcnaan gatgnggnaa tctccgcccc gcngcctctc tggcnggtnn   180

ccgttctcac cttnnacacc nccccnngct cncntncnct cccnnacnnc nnnttctctc   240

ngcancccac ttnatctncc nncnccctcc cnacgnntcc cnccccncng nncnantgnn   300

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catcgccaaa ttttacttgt ttatccgctg gcatatcnnc ccnnnncgta ctagtcgacg   180

cgtggccann   190

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ataaaactat cagcgcccaa aaaaacagtg cgatgcgtcg actggcaatt cacagcaacg     180

ctgaaatgta tgcatggata aatagcgcgc agggtgcaag agaacttaac ttgccttctg     240

tttatggaga tgccgcagaa tggaacacag ccgaattaag aagagaaatg tcgcactcat     300

agaaaaatgc gtcatgagta gtatcggtat tgagagttta ttcagaaagt ttgcgggtaa     360

cccttataag ctccatacct ataccagtca ggagtcattt caggatgcca tgtcgcggat     420

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cattaaaaga gtttgcccag caaattatta ccgtacagga aaaatcacca caacggataa   180

tgcatatcnc ncnnnnnngt actagtcgac gcgtggccac anan                    224
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